

Title (en)

VISIBLE-LIGHT COMMUNICATION-BASED ENCRYPTION, DECRYPTION AND ENCRYPTION/DECRYPTION METHOD AND SYSTEM

Title (de)

AUF KOMMUNIKATION IM SICHTBAREN LICHT BASIERENDE VERSCHLÜSSELUNG, ENTSCHLÜSSELUNG SOWIE VERSCHLÜSSELUNGS-/ ENTSCHLÜSSELUNGSVERFAHREN UND SYSTEM

Title (fr)

PROCÉDÉ ET SYSTÈME DE CRYPTAGE, DE DÉCRYPTAGE ET DE CRYPTAGE/DÉCRYPTAGE FONDÉS SUR UNE COMMUNICATION PAR LUMIÈRE VISIBLE

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Application

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Abstract (en)

Embodiments of the present invention provide a visible-light communication-based encryption, decryption and encryption/decryption method and system. A transmit end performs a logical operation on an original data signal and a pseudocode signal varying with a unit interval to obtain a scrambling code signal, and sends the scrambling code signal in a form of a visible light signal. A receive end receives the visible light signal sent by the transmit end, and converts the visible light signal into a digital signal; and decodes the digital signal and a pseudocode signal varying with a unit interval, so as to obtain the original data signal. The visible light signal transmitted between the transmit end and the receive end is not original data, but a scrambling code signal varying with a unit interval, thereby improving security of the photonic Internet of Things.

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